Wisconsin DNR 24K Hydrography Data Capture and Feature-Coding Decision Rules for the Change Flag Items

Wisconsin Department of Natural Resources Bureau of Technology Services Last Updated: Summer 2005



GEOMETRY Change Flag (GEOM_CHFLG)

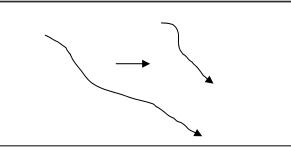
ARCS (.AAT)

Before change -> After change

LENGTH

If the length of an arc is changed from the previous release, the Geometry Flag will be populated.

In this example, an arc has been shortened; therefore, the Geometry Change Flag is populated with a 1.



NATURAL Change Flag (NAT_CHFLG)

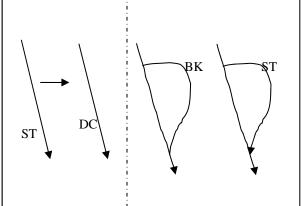
ARCS (.AAT)

Before Change -> After Change

LTYP

XX, CW, OC, BK, BF (Non-flow arcs) <-> CL, FP, EX, CB, WG, ST, DC (flow arcs) Non-flow arcs <-> Flow arcs (When Non-flow arcs change to Flow arcs, or when Flow arcs change to Non-flow arcs, the Natural Change Flag is populated.)

In this example, a flow arc of linear_typ of ST remained a flow arc but the linear_typ changed to DC, and the Natural Change Flag was populated with 1. Also, an example of non-flow to flow is given.



DURATION

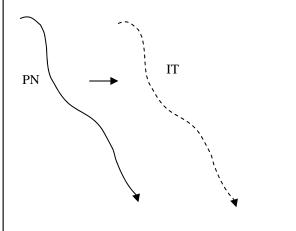
IT, PN, FX <-> IT, PN, FX

(When a duration of intermittent, perennial, or fluctuating changes to a duration of intermittent, perennial, or fluctuating.) NA<->IT, PN, FX

(When a duration of not applicable changes to a duration of intermittent, perennial, or fluctuating, or vice versa)

When edits are made to DURATION, Natural Change Flag is populated.

In this example, an arc was changed from DURATION = 'PN' to 'IT', populating Natural Change flag with a 1.



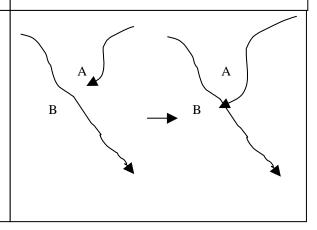
LANDLOCKED

Y < -> N

(When landlocked equals 'Yes' changes to 'No' or vice versa)

When edits are to arcs that affect LANDLOCKED, Natural Change Flag is populated.

In this example, stream A is extended to connect with stream B. Stream A therefore will no longer be LANDLOCKED and will have the NATURAL CHANGE FLAG item populated with a 1.



NATURAL Change Flag (NAT_CHFLG)

ARCS (.AAT)

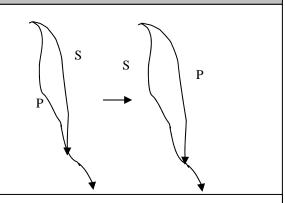
Before change -> After change

FLOW

SECONDARY <-> PRIMARY
NA <-> SECONDARY or PRIMARY

When flow is changed, the Natural Change flag is populated.

Both streams in this braided example would have their Natural Change Flag populated with a 1.



GNIS Change Flag (GNIS_CHFLG)

ARCs (.AAT)

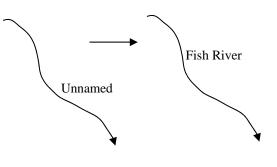
RIVSYSNAME

NAME <-> NAME/NAMED or UNNAMED <-> NA -> NAMED or UNNAMED

Any changes to the RIVSYSNAME item will be flagged in the GNIS CHANGE item.

In this example, an Unnamed stream is changed to 'Walt's River' therefore populating GNIS Change Flag with a 1.

Before Change -> After Change



WBIC Change Flag (WBIC_CHFLG)

ARCS (.AAT)

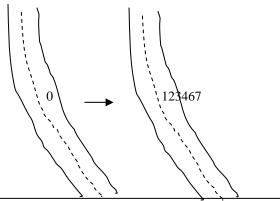
RIVSYSWBIC

WBIC <-> -1 WBIC <-> WBIC

Any changes made to RIVSYSWBIC will populate the WBIC CHANGE item with a

In this example, a river with no WBIC value is changed to 1234567, thus populating the WBIC Change Flag.

Before Change -> After Change



REFERENCE Change Flag (REF_CHFLG) ARCS (.AAT) **Before Change -> After Change** WBIC_BY, WBIC_DATE, WBIC_STAT - GA When WBIC metadata is changed, - 12/03/01 Reference Change Flag is populated with a - ACCEPTED In this example, an arc is given a WBIC therefore corresponding WBIC metadata is given to the arc. _ "" **QUADLINE** YES<-> NO Any changes to the item QUADLINE, either NO YES from YES to NO or vice versa, will populate the REFERENCE Change Flag with a 1. In this example, QUADLINE is changed from NO to YES. OH_SRC_YR, YH_COL_MTH, OH_SRC_YR OH_SRC_YR OH_SRC_DNM, XREF, WGS-ID 1974 2002 Any changes to the items listed above will populate the REFERENCE Change Flag with a 1. In this example, the OH_SRC_YR (the original source year of the line work) was updated because a more recent USGS quad was found. FLIP Change Flag (FLIP_CHFLG) ARCs (.AAT) **Before Change -> After Change** An arc that is 'flipped' will be flagged as having a FLIP CHANGE item populated with a 1. In this example, an arc is flipped.

GEOMETRY Change Flag (GEOM CHFLG)

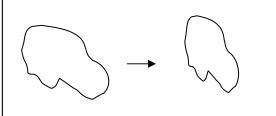
REGIONS (. PATSHAID)

Before Change -> After Change

AREA and PERIMETER

Edits made to the Regions that affect AREA will be flagged in the Geometry Change item.

In this example, a lake decreases in both AREA and PERIMETER.



NATURAL Change Flag (NAT CHFLG)

REGIONS (.PATSHAID)

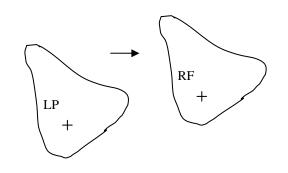
Before Change -> After Change

STYP

Stype > Stype

Any changes made to the Shaid_type (STYP) of a SHAID will cause the NATURAL CHANGE item to be populated.

In this example, a lake with STYP of LP is changed to RF.

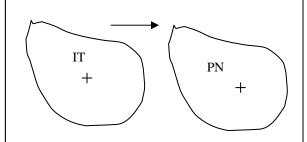


DURATION

IT,PN,FX <-> IT,PN,FX

Any changes to the DURATION of the Region will cause the NATURAL Change Flag to be populated with a 1.

In this example, a lake with DURATION of 'IT' is changed to 'PN'.

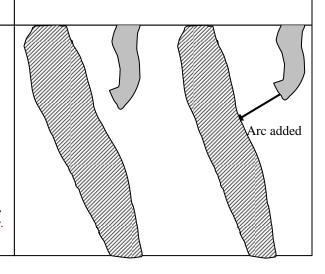


LANDLOCKED

Y<-> N (LANDLOCKED = 'YES' OR 'NO')

When a landlocked feature is changed to a non-landlocked feature or a non-landlocked feature is changed to a landlocked feature, the Natural Change Flag is populated with

In this example, the shaded SHAID is connected with an arc to the striped SHAID, given the shaded SHAID a landlocked value.



GNIS Change Flag (GNIS_CHFLG) **REGIONS (. PATSHAID) Before Change -> After Change SHAIDNAME** Name <-> Unnamed Any changes to the SHAIDNAME field will populate the GNIS CHANGE item. Mud Lake *In this example, SHAIDNAME* = 'Mud Unnamed Lake' is changed to 'Unnamed'. This will cause the GNIS CHANGE item field to be flagged. RIVSYSNAME Name <-> Unnamed **Unnamed** Red River Any changes made to RIVSYSNAME will populate the GNIS CHANGE item. *In this example, RIVSYSNAME* = 'Unnamed' is changed to 'Red River'. WBIC Change Flag (WBIC_CHFLG) **REGIONS (. PATSHAID) Before Change -> After Change SHAIDWBIC** WBIC <-> WBIC 0 < -> WBIC1234567 0 Any changes made to the SHAIDWBIC value will populate the WBIC Change Flag with a 1. In this example, a SHAID with a SHAIDWBIC value of 0 is changed to 1234567.

WBIC <-> WBIC 0 <-> WBIC Any changes made to the RIVSYSWBIC value will populate the WBIC Change Flag Ru with a 1. 23456 In this example, a SHAID with a RIVSYSWRIC of 1234567 is changed to GEOMETRY Change Flag (GEOM_CHFLG) **Routes (.RATSTEM) Before Change -> After Change** LENGTH Edits made to the length of a route will cause the Geometry Change Flag to be populated. In this example, a route is decreased in length, which will populate the Geometry Change Flag with a 1. FLIP Change Flag (Flip Flag) **Routes (.RATSTEM) Before Change -> After Change** Flipping a route will cause the Flip Change Flag to be populated with a 1. In this example, a Route is flipped. NEW FEATURES Flag (NEW) **ALL FEATURE CLASSES Before Change -> After Change** New features will be populated with the 'New' change item with a 1. In this example, a new lake is created.

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